

P. Sci. Waves **Key**

Put all answers on a separate sheet of notebook paper.

1. Mechanical waves need a medium through which to transport energy.
2. The particles in a surface water wave move in a circle (back & forth / up & down).
3. Waves in which the particles of medium move at right angles to the direction of the wave are transverse waves.
4. The wavelength of a wave is measured from the crest of one wave to the crest of the next.
5. If the wavelength of a given wave decreases, you know that its frequency will increase.
6. Two waves have the same frequency and wavelength, but the first wave has a greater amplitude. The energy of the first wave greater than that of the second.
7. Wave A has a greater frequency than wave B, but the amplitude of the two waves is the same. The energy of wave A is equal to that of wave B.
8. The unit for frequency is the hertz.
9. A wave will travel only as long as it has energy to carry.
10. When you squeeze together the coils of a spring and then release them, you are creating a compressional wave.
11. Waves in which the particles of the medium move only in the same direction as the motion of the wave are compressional waves.
12. You are creating a wave on a spring. If you start shaking the spring more slowly, the wavelength of the resulting wave will increase.
13. If you are lying on a raft, and you notice that the number of waves that go past the raft increases, you also find that the distance between each crest decreases.
14. Wave A carries more energy than wave B. Wave B has a smaller amplitude than wave A.
15. The energy a wave carries is measured by its amplitude.
16. For a given wave, if the frequency doubles, the wavelength is halved.
17. When a wave passes from a less dense medium to a more dense medium, the speed may change.
18. Repeating disturbances that transfer energy through matter or space are waves.

19. The two types of mechanical waves are transverse and compressional (longitudinal).
20. If the frequency of a water wave changes, its wavelength must also change.
21. The symbol λ (lambda) stands for the wavelength.



Figure 11-1

22. In Figure 11-1, identify the following structures:
B wavelength, A crest, C amplitude
23. Speed can be determined by dividing the distance traveled by the time. The water waves in a lake travel 4.4 m in 2.0 s. What is the speed of the waves? $y = d/t$ $v = 4.4\text{m} / 2.0\text{s}$ $v = 2.2\text{ m/s}$
24. An ocean wave has a frequency of 2.0 Hz with a wavelength of 10 m. What is the velocity of the wave? $v = f \times \lambda$ $v = 2.0\text{ Hz} \times 10\text{ m}$
 $v = 20\text{ m/s}$



25. The wavelength of the wave in the diagram is 1.5 m.
26. The amplitude of the above wave is 0.5 m.
27. A man is standing on the shore of a beach, up to his knees in water. Every 5 seconds a wave breaks on him. What is the period of the wave? 5 seconds

Waves Guide Sheet Answers Physics

AN Whitehead



Waves Guide Sheet Answers Physics:

The Electrician ,1893 **Plasma Physics and Magnetohydrodynamics** Defense Documentation Center (U.S.),1962
German-English Technical Dictionary of Aeronautics, Rocketry, Space Navigation Atomic Physics, Higher Mathematics [etc.] ... United States. Central Air Documents Office,1949 *American Journal of Physics* ,1949 **Apparatus for Physics Teaching** American Journal of Physics,American journal of physics,1961 Surface Waves in Anisotropic and Laminated Bodies and Defects Detection Robert V. Goldstein,Gérard A. Maugin,2006-02-21 Among the variety of wave motions one can single out surface wave propagation since these surface waves often adjust the features of the energy transfer in the continuum system its deformation and fracture Predicted by Rayleigh in 1885 surface waves represent waves localized in the vicinity of extended boundaries surfaces of viscoelastic media In the ideal case of an isotropic elastic half space while the Rayleigh waves propagate along the surface the wave amplitude displacement in the transverse direction exponentially decays with increasing distance away from the surface As a result the energy of surface perturbations is localized by the Rayleigh waves within a relatively narrow layer beneath the surface It is this property of the surface waves that leads to the resonance phenomena that accompany the motion of the perturbation sources like surface loads with velocities close to the Rayleigh one see e.g. R. V. Goldstein Rayleigh waves and resonance phenomena in elastic bodies Journal of Applied Mathematics and Mechanics PMM 1965 v 29 N 3 pp 608 619 It is essential to note that resonance phenomena are also inherent to the elastic medium in the case where initially there are no free unloaded surfaces However they occur as a result of an external action accompanied by the violation of the continuity of certain physical quantities e.g. by crack nucleation and dynamic propagation Note that the aforementioned resonance phenomena are related to the nature of the surface waves as homogeneous solutions eigenfunctions of the dynamic elasticity equations for a half space i.e. nonzero solutions at vanishing boundary conditions **Nuclear Science Abstracts** ,1969 NASA Reference Publication ,1977 Shock Wave Science and Technology Reference Library, Vol. 2 Y. Horie,2007-04-26 This book is the first of several volumes on solids in the Shock Wave Science and Technology Reference Library This is a unique collection and the library as a whole sets out to comprehensively and authoritatively cover and review at research level the subject matter with all its ramifications All the chapters are self contained and can be read independently of each other though they are of course thematically interrelated Scientific and Technical Aerospace Reports ,1995 **U.S. Government Research Reports** ,1963 *Journal of Energy Resources Technology* ,1980 *ENC Focus* ,2000
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